

Claims

1. An elevating platform system (1;1') for attachment to vehicles, with a platform (2) and a parallelogram-shaped lifting mechanism comprising two horizontally separated carrier arms (3, 3', 4) for carrying the platform (2), a parallel cylinder (10) for pivoting the platform (2) from its vertical traveling position into a horizontal working direction and vice versa as well as a lifting cylinder (7) for raising and lowering the platform (2) in its working position, wherein the lifting cylinder (7) engages a lifting cylinder lever (6) which is borne for rotation about the pivot axis (5) for the carrier arm (3, 3', 4) and forms together therewith a force triangle, wherein one first carrier arm (3, 3') is elastically coupled for motion in the lifting direction to the lifting cylinder lever (6) and the other second carrier arm (4) is connected to the lifting cylinder lever (6) via a torsion profile (9), characterized in that the elastic motion coupling is effected by a spring unit (8) which is supported on one side on the first carrier arm (3, 3') and supported on the other side at the lifting cylinder lever (6) or on the end of the lifting cylinder (7).
2. Elevating platform system according to claim 1, characterized in that the first carrier arm (3) and the lifting cylinder lever (6) are borne for rotation about the common pivoting axis (5), independent of each other.
3. Elevating platform system according to claim 1, characterized in that the first carrier arm (3') is borne for rotation on the lifting cylinder lever (6) at a radial separation from its axis of rotation (5).

4. Elevating platform system according to any one of the preceding claims, characterized in that the spring unit (8) comprises a compression spring, in particular a rubber spring (11).
5. Elevating platform system according to any one of the preceding claims, characterized in that the lifting cylinder lever (6) comprises two parallel separated arms (6a, 6b) between which the first carrier arm (3, 3') is disposed.
6. Elevating platform system according to claim 5, characterized in that a connecting device (12) is attached to one arm of the lifting cylinder lever (6), in particular on an inward arm (6a), and supports the torsion profile (9) which seats on the other arm of the lifting cylinder lever (6).
7. Elevating platform system according to claim 6, characterized in that the connecting device (12) is connected to the side of one arm of the lifting cylinder lever (6), in particular on the inward sided arm (6a), and seats on both arms (6a, 6b).
8. Elevating platform system according to claim 6 or 7, characterized in that the connecting device (12) has a connecting plate (13) with a window (15) through which the first carrier arm (3, 3'), the two arms (6a, 6b) of the lifting cylinder lever (6), and the lifting cylinder (7) protrude and with an upward support (16) which seats on both arms (6a, 6b).